

$$RE_k = \frac{\sum_{t_j > t_k - T} d_j}{T}$$

FIG. 1

$$RE_{k-1} = \frac{\sum_{t_j > t_{k-1} - T} d_j}{T}$$

FIG. 2

$$RE_k = RE_{k-1} + \frac{d_k - \sum_{j: j \leq k-T, i > k-1-T} d_j}{T}$$

FIG. 3

$$\hat{RE}_k = \frac{19}{21} RE_{k-1} + \frac{1}{21} (RE_k + RE_{k-1})$$

FIG. 4

```

if (3 DUPACKs are received)
500 ~if (cwin / ((RE * RTTmin) / seg_size) > 0) /* Congestion condition */
505 ~ssthresh = (RE * RTTmin) / seg_size;
    else /* no congestion */
507 ~ssthresh = (BE * RTTmin) / seg_size;
    endif
509 ~if (cwin > ssthresh) /* congestion avoid. */
    cwin = ssthresh;
    endif
endif

```

FIG. 5

if (3 DUPACKs are received) <sup>600</sup>  
     $\text{ssthresh} = (\text{ABSE} * \text{RTTmin}) / \text{seg\_size};$   
    if ( $\text{cwin} > \text{ssthresh}$ ) /\* congestion avoid. \*/  
         $\text{cwin} = \text{ssthresh};$   
    endif  
endif

In case a packet loss is indicated by a timeout expiration, *cwin*  
and *ssthresh* are set as follows:

if (coarse timeout expires) <sup>~602</sup>  
     $\text{cwin} = 1;$  <sup>~604</sup>  
     $\text{ssthresh} = (\text{ABSE} * \text{RTTmin}) / \text{seg\_size};$  <sup>~606</sup>  
    if ( $\text{ssthresh} < 2$ )  
         $\text{ssthresh} = 2;$   
    endif  
endif

FIG. 6

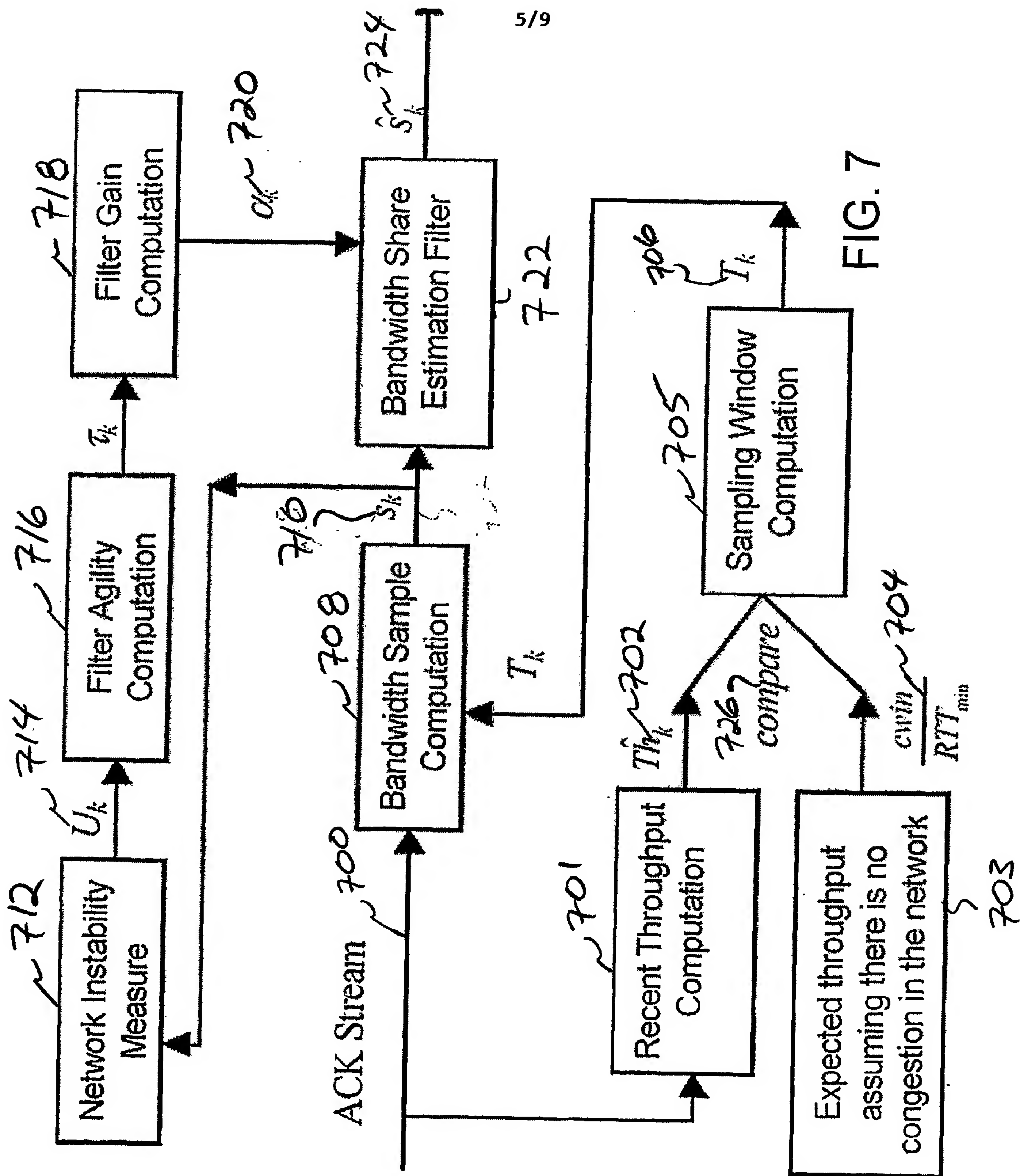


FIG. 7

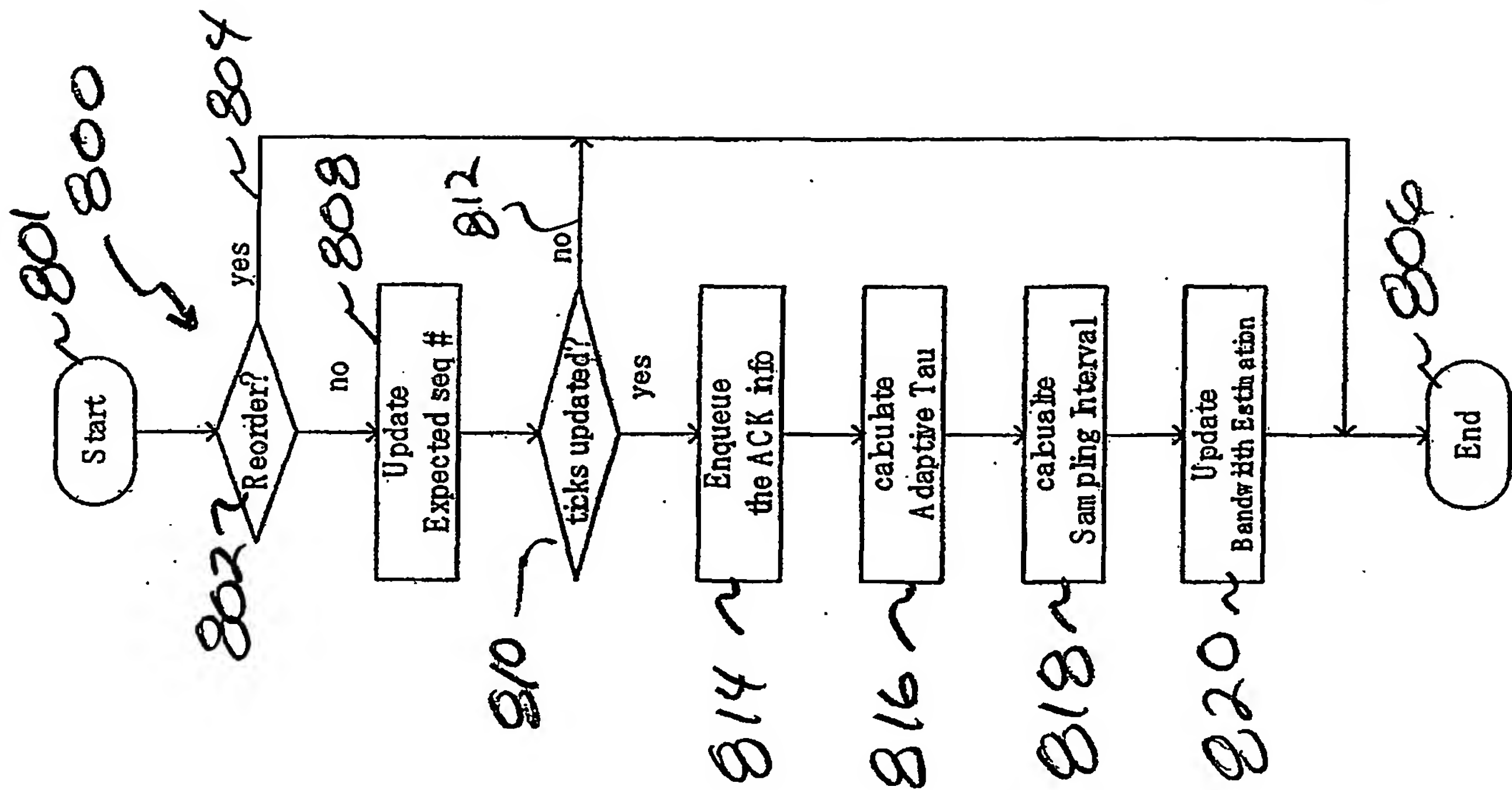


FIG. 8

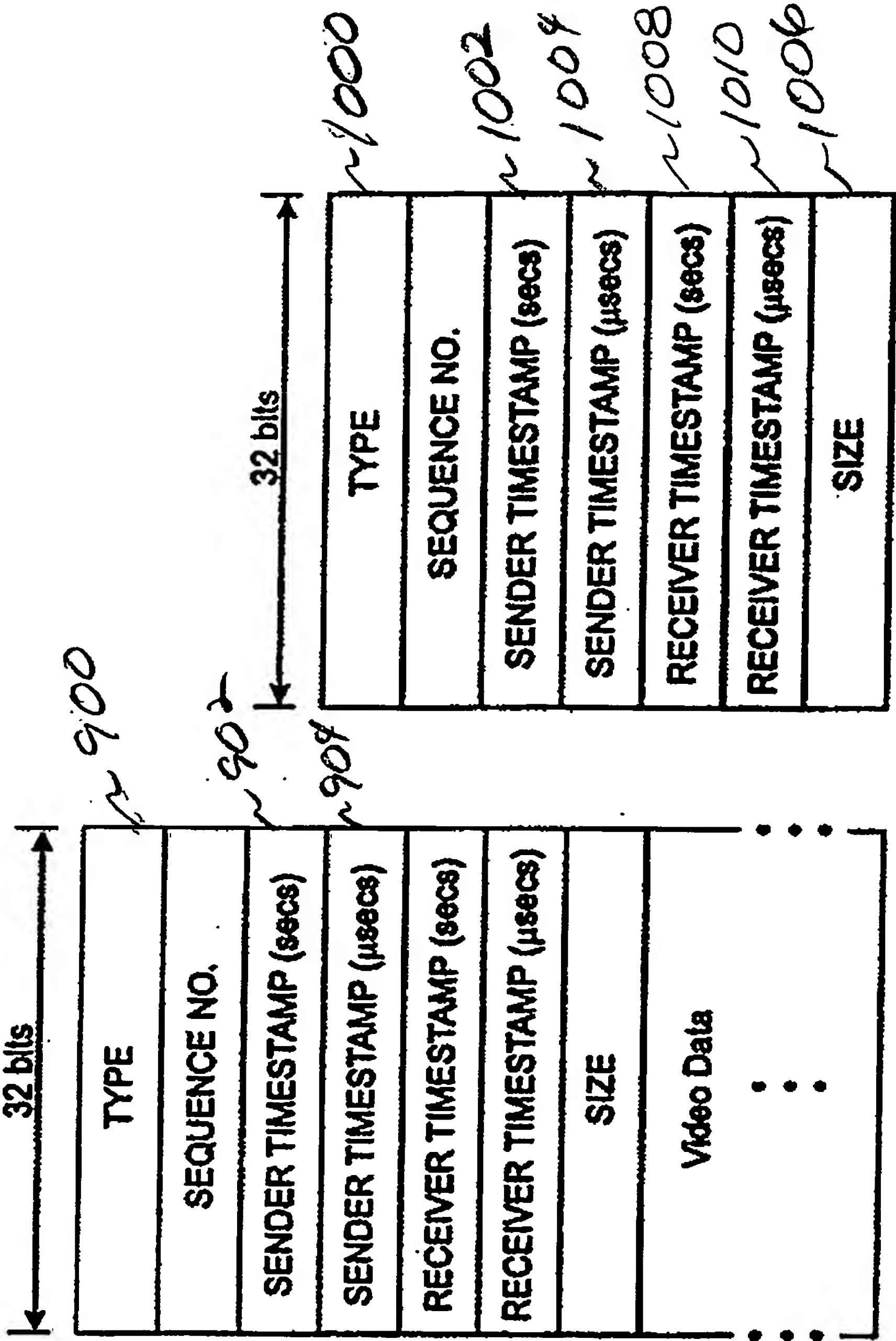


FIG. 9

FIG. 10

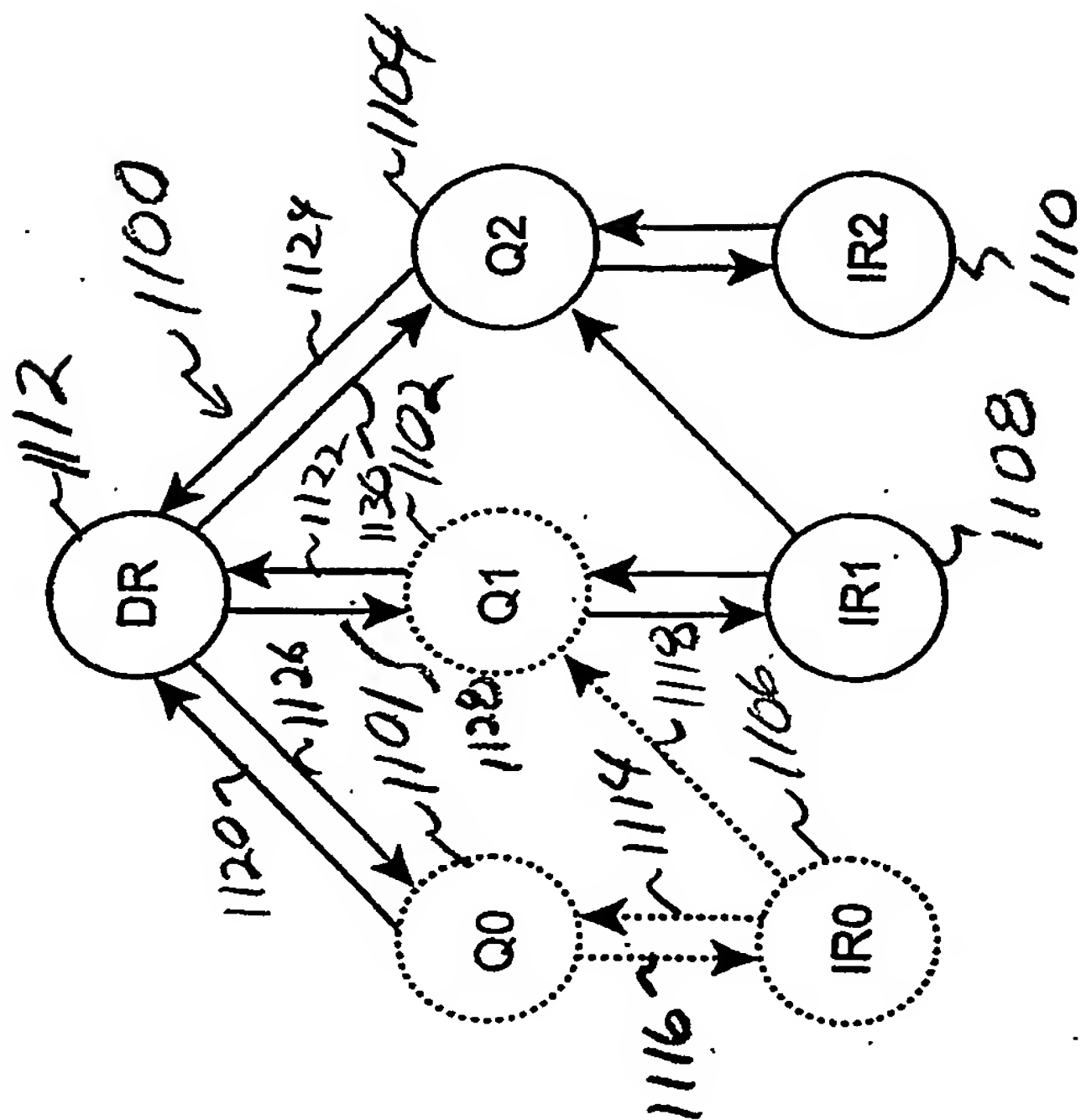


FIG. 11

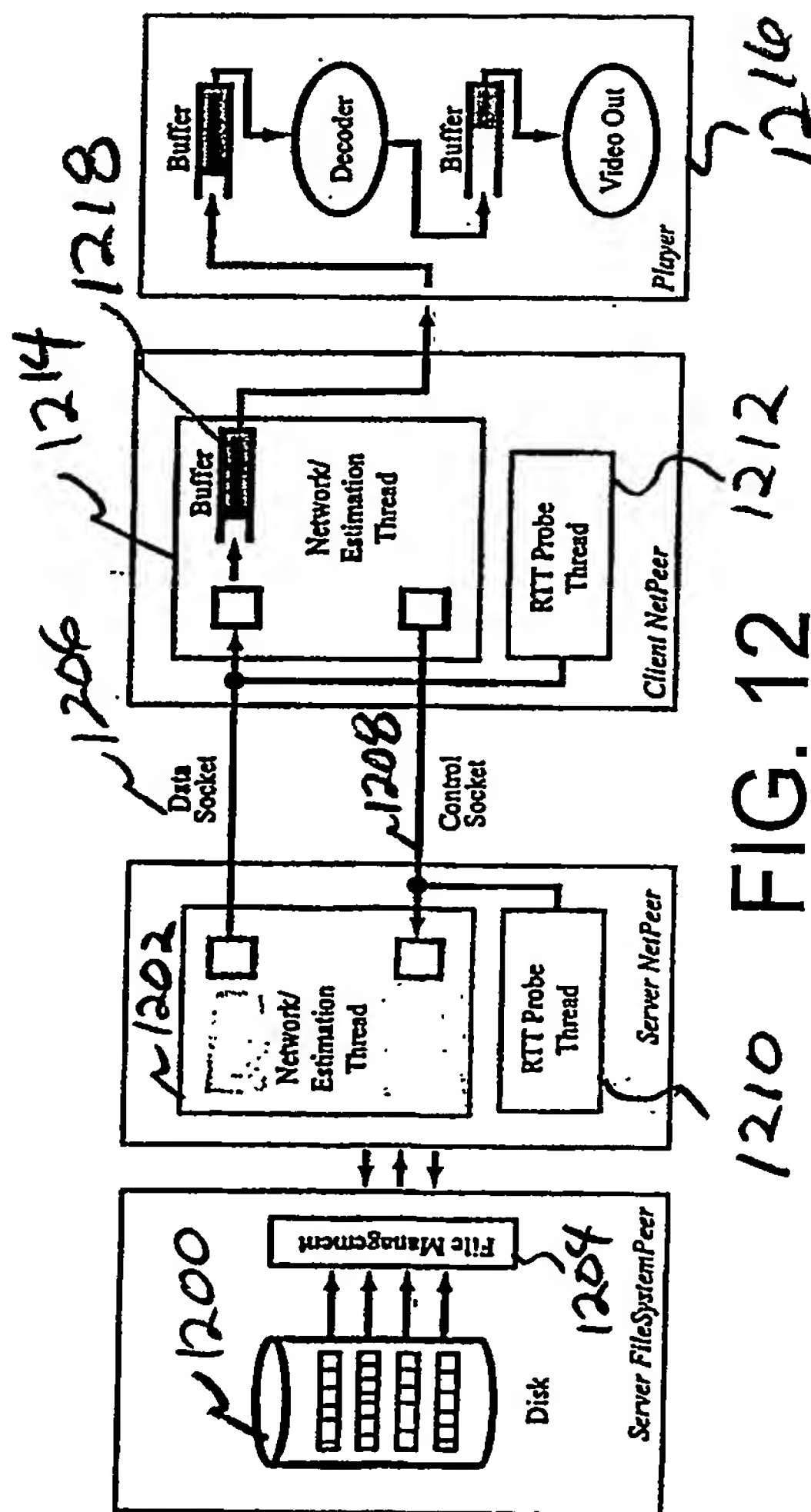


FIG. 12



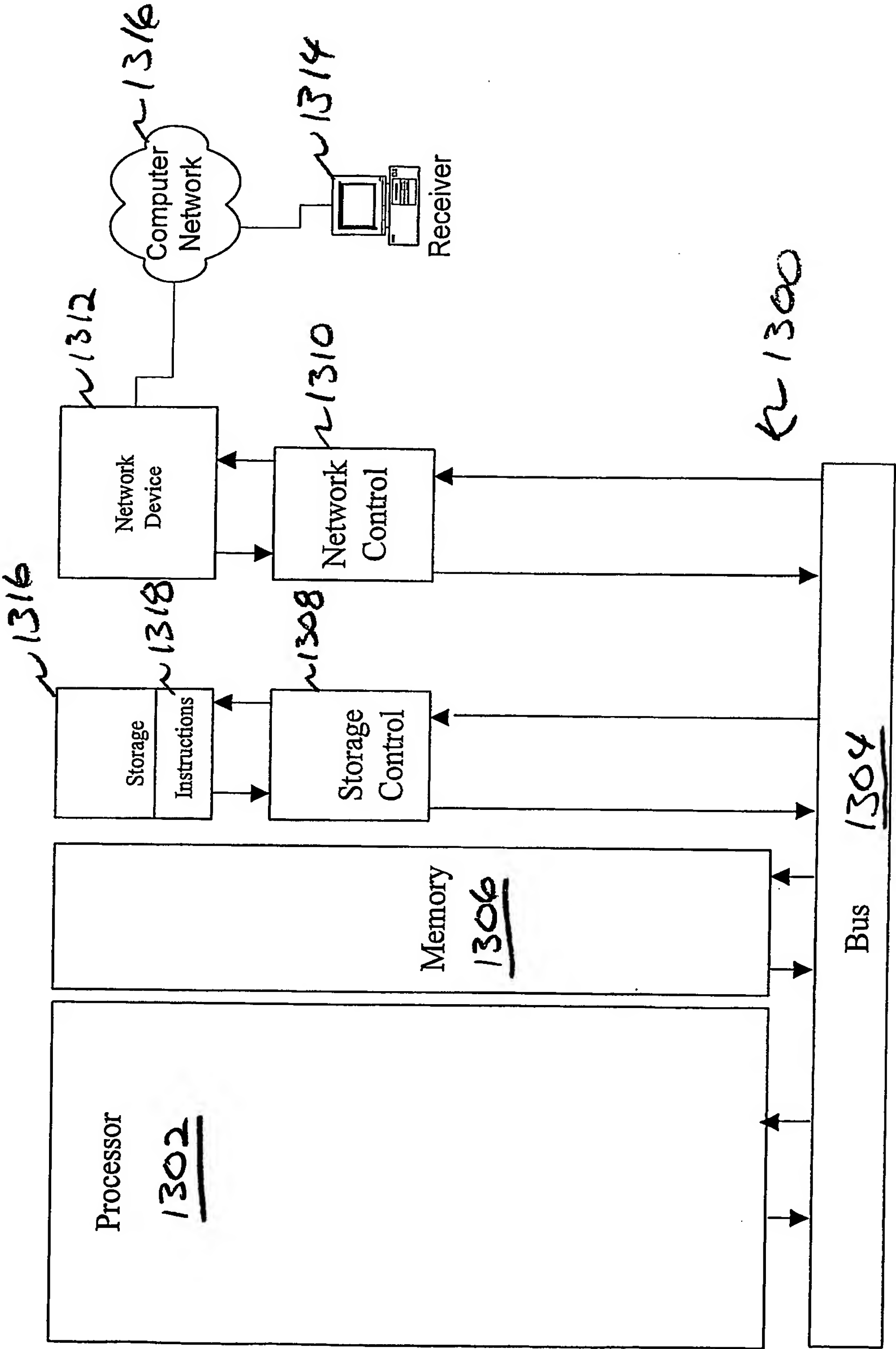


FIG. 13